Activity Description	ACTIVITY_C	Commitment Number		Workplan Commitments	Contact Person	Funding Source	Funding Source 2	Related ACS Measures	Time Frame/ Completion Date	Where Progress or Completion is Documented	Status/ Progress
Goal 2: Protecting America's Waters											
Objective 2.1: Protect Human Health											
Water Safe to Drink											
PWSS Program		DWC	26	Maintain primacy and fully implement PWSS Program regulations (including primacy reporting requirements). Continue to implement RTCR while State rules are developed in accordance with the Primacy Extension agreement. Promulgate amendments to the NJ Safe Drinking Water Act to incorporate and implement certain discretionary elements of RTCR. Implement the Lead and Copper Rule (LCR) consistent with Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems issued by USEPA March 2016. DEP expects to begin implementation of Water Quality Parameter monitoring as outlined in NJDEP-DWSG Lead and Copper Rule Implementation Strategy by December 2016.	Angarone K.	Federal – PPG				BSDW and BWSE Monthly Reports	Ongoing
Drinking water violation reporting		DWC	61	By July 1, submit an annual report to Region 2 as per Section 1414(d)(3)(A) on drinking water violations.	Angarone K.	Federal – PPG				DEP Annual Report	Ongoing
UCMR		DWC	72	Implement the Unregulated Monitoring Rule (UCMR4) according to the New Jersey - EPA Region 2 Partnership Agreement.	Angarone K.	Federal – PPG				DEP Annual Report	Ongoing
Lead ban provisions		DWC	85	Demonstrate annually that DEP is effectively implementing and enforcing the lead ban provisions (Sec. 1417 (a)(1)).	Angarone K.	Federal – PPG				NJAC 5:23-3.15(a)1, and the National Plumbing Subcode/2000, 4.2.4	Ongoing
Groundwater monitoring		GWC	1	Maintain or replace wells in the AGWQM network, to ensure that 50 wells are sampled per year. Incorporate into the program the following technology to be purchased this year: five ground water quality probes (sondes) equipped to deliver data via telemetry, "push-drive" Geoprobes to supplement monitoring well data, and an advanced GPS unit to deliver locational data with centimeter accuracy.	Bousenberry, R	Federal - PPG, State and Multi-Purpose Grant				NGWS' publications, Integrated Water Quality Monitoring & Assessment Report, NJDEP Trends Report	
Underground Injection Control		GWC	23	Conduct UIC permitting activities in accordance with N.J.A.C. 7:14A.	Murphy, J.	State – General Fund				NJPDES Permit Issuance	Ongoing
Underground Injection Control		GWC	24	NJDEP will submit a UIC report annually to EPA on or about October 30 of each year. This report will include all mandatory EPA reporting measures as agreed upon by EPA and NJDEP.	Murphy, J.	State – PPG Match				Documentation sent to EPA.	Ongoing
Fish and Shellfish Safe to Eat											
		SWC	23	Continue monitoring for the National Shellfish Sanitation Program, including microbial, phytoplankton and sanitary surveys and open/close areas to shellfish harvesting. Information from these analyses will contribute to NJ's classification of its coastal waters for shellfish harvesting.	Schuster, B.	Federal – PPG				Annual Shellfish Classification Charts, Growing Area Reports, BMWM Website (http://www.nj.gov/dep/bmw/index.html), STORET/WQX.	Ongoing
Enhancement of Advanced Microbiological Techniques for Source Tracking and Vibrio Management Using Quantitative Polymerase Chain Reaction (qPCR) and Pulsed-field Gel Electrophoresis (PFGE)		SWC	114	BMWM will purchase primers, probes and serotyping kits to continue work in the areas of advancedmicrobiological techniques for source tracking and vibrio management in New Jersey. BMWM will become certified in PFGE through PulseNet a national network of public health and food regulatory agency laboratories.	Schuster, B.	Federal - Supplemental 106 (FFY14, FFY15)				Long Term Strategy Annual Progress Report and Annual Vibrio Management Plan.	Ongoing
Fish Tissue Monitoring		SWC	199	Continue the NJDEP fish tissue monitoring program. Freshwater sampling and analyses will be conducted on 10-20 targeted and probabilistic sites in public lakes over 10 acres, and/or large rivers. Implement esturine and coastal waters fish tissue monitoring program. [Note: commitment moved from "Improve Water Quality on a Watershed Basis" section]	McGeorge, L., (WM&S), Buchanan, G. (OS), Schuster, B. (WM&S)	Federal - Supplemental 106 Funding				Raw data in to STORET/WQX data warehouse	
Analyze phytoplankton in NJ waters to evauate and protect impacts to both ecological and public health		SWC	214	Effective harmful algal bloom monitoring. Monitor for harmful algal blooms in NJ's coastal and estuarine water to protect public health from direct recreational contact and shellfish consumption. Flow cam microscope will enhance the ability to identify and enumerate algal species in both fresh and marine waters with more frequency of sampling.	Schuster, B.	Federal - PPG				Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)	Ongoing
Water Safe for Swimming											
		SWC	185	Through the Clean Shores Program, continue to use state prison labor to remove debris from ocean and estuary shorelines to reduce floatable debris incidents at ocean recreational areas.	~~Schuster, B.~~ Cenno, K.	Coastal Protection Trust Fund				Periodic summary reports; indicator. Data management - PC database.	Ongoing
Beach Monitoring		SWC	186	Through the Cooperative Coastal Monitoring Program, continue to coordinate the routine monitoring of coastal recreational waters performed by the State and local health agencies. All activities are dependent on continued funding from EPA's Beach Grant. Effective communication to the public is done through an interactive web page.	~~Schuster, B.~~ Cenno, K.	EPA Beach Grant				Annual summary reports; indicator. Data management - STORET data warehouse.	Ongoing
		~~SWC~~	~~187~~	~~Redesign and development of new BEACHES Database for NJ's Cooperative Coastal Monitoring Program to provide beach related data to the public via a new interactive website. In addition the database will provide reporting capabilities for participating local Health Departments. Funding from EPA's Beach Grant.~~	~~Schuster, B.~~	~~EPA Beach Grant~~				~~New BEACHES Database for NJ's Cooperative Coastal Monitoring Program is completed https://njbeaches.org/ STORET/WQX Completed~~	~~Completed~~
Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems											
Improve Water Quality on a Watershed Basis											

Rivers and Streams Monitoring Networks		SWC	1	Continue to monitor and evaluate fixed chemical/physical and microbiological quality of freshwater streams and sediments, including the use of the redesigned Cooperative Ambient Surface Water Quality Monitoring Network and Regional Targeted Water Quality Networks; continue benthic Ambient Macroinvertebrate Network (AMNET) at rotating fixed stations; continue implementation of Northern and Southern Fish Index of Biotic Integrity (FIBI) and Headwater Index of Biotic Integrity (HIBI), Summer Bacti, at rotating fixed stations, statewide probabilistic and sentinel sites; continue monitoring for purposes of listing/delisting under CWA section 303(d). Continue a probabilistic network of 50 NJ stream sites which, to extent possible, will integrate physical/ chemical, biological, and habitat assessments. Results from this network will be used to provide statistically sound statewide estimates of water quality. ---------- Continue to enhance and/ or develop new biological indices as needed. Continue to enhance and/ or develop monitoring to address gaps.	McGeorge, L.	Federal - PPG,Supplemental 106 FY16, and State CBT				Integrated Water Quality Monitoring and Assessment Report, WM&S Webpage, STORET/WQX	Ongoing
TMDL Effectiveness Monitoring		SWC	7	TMDL Effectiveness Monitoring: Collect ambient synoptic monitoring data necessary to establish TMDLs in selected waters ~~as based on in accordance with~~ the MOA TMDL Schedule.	McGeorge, L., Schuster, B.	Federal - PPG				NJ Register, Integrated Water Quality Monitoring and Assessment Report , STORET/WQX, DEP Website	Ongoing
SI Source Trackdown		SWC	10	Conduct investigations at impaired/impacted monitoring sites to ascertain the probable sources and causes of the impaired condition. Collaborate with other water programs of the Department, and external partners utilizing a team approach to determine potential stressors. **Annually assesses bacterial water quality for the shellfish program, and if degrading and results in a change in shellfish water classification, special sampling will be conducted to find and fix the sources of bacterial pollution.**	McGeorge, L.	Federal - PPG and State CBT				Individual project report, STORET/WQX	Ongoing
NARS & EPA regional network		SWC	12	Participate in EPA National Aquatic Resource Surveys as resources allow. Wetlands NWCA CY 2016; NLA CY 2017 and EPA Regional Monitoring Network (RMN) - ongoing NRSA CY 2018-2019.	McGeorge, L., Friedman, B., Walz, K.	Federal - Supplemental 106 Funding and CBT State				EPA Reports	Ongoing
NWQI		SWC	13	Montioring for National Water Quality Initiative (NWQI), EPA - Salem watershed Water quality and biological data obtained will be used by NJDEP to assess whether water quality and/or biological condition related to nutrients, sediment, or pathogens has changed in the watershed, and if the change can be associated with implemented agricultural conservation practices (Best Management Practices, BMPs).	McGeorge, L.	Federal - PPG and State CBT				STORET/WQX	
LAKES		SWC	14	Continue NJDEP Ambient Lakes Monioring Network, re-designed to include probabalistic, reference, and targeted lakes. As part of network, conduct monitoring of cyanotoxins, with analysis performed in BFBM laboratory. Implement diatom index analysis. Evaluate use of biological monitoring and assessment in lakes. Evaluate newly developed diatom nutrient inference models for routine use (with DSREH) Evaluate the need to develop diatom impairment indices (with DSREH)	McGeorge, L. and Buchanan, G. (DSREH -diatom commitments)	Federal – PPG State CBT				Individual Project Reports STORET/WQX, WM&S Website	Ongoing
HAB Response Strategy		SWC	15	~~Develop and~~ Implement and update Statewide HAB Response Strategy in coordination with DSREH and other state agencies. Strategy includes response plan, advisories, establishment of threshold values, and research. Monitoring Intiative Projects: Cyanobacteria State Occurrence and Distribution - Using routine Lake samples , and HAB response monitoring will be used for taxa identification, enumeration, and inventory of cyanobacteria found in NJ. In addition to established methods, Flowcam technology will also be used. Cyanoscope Kits for HAB Monitoring - Cyanoscope Kits or related equipment will to be purchased for use by NJ County Health Departments and other State partners including watershed associations, lake associations, and other interested partner to collect samples, identify a HAB, and provide accurate information to BFBM so that proper response actions can be initiated in a much more efficient manner.	**McGeorge, L. and Buchanan, G. (DSREH)**	**State CBT, Federal - PPG**				Division webpage (www.state.nj.us/dep/wms)	
		SWC	26	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals, including SP-10 and SP-11. ~~NJDEP will also assist EPA in setting targets for 2016. NJDEP will provide EPA with a "crosswalk" of the listings/geographic areas in 2002 which comprise each delisted waterbody/pollutant combination in 2014. NJDEP has targeted September 1, 2016 for sharing this crosswalk.~~	Cenno, K.					~~A separate report for the "crosswalk."~~ ATTAINS	Ongoing
		SWC	36	Coordinate water monitoring and assessment activities to support departmental clean water objectives and water programs. Includes revision and implementation of Long-Term Monitoring Program Strategy (and associated water indicators) in accordance with EPA Guidance "Elements of a State Water Monitoring and Assessment Program". As part of this process, identify the primary data and assessment gaps for subwatersheds listed as "unassessed" on the Integrated List. Report the gaps and progress made in filling them as part of the Long Term Monitoring and Assessment Strategy Annual Progress report.	Friedman, B.	Federal – PPG				Long Term Strategy Annual Progress Report.	Ongoing

		SWC	37	Coordinate NJ–Water Monitoring Council with USGS, EPA and other NJ monitoring organizations. Includes 40 members from 19 monitoring organizations. Council holds 3 meetings/year and periodic statewide water monitoring summits.	McGeorge, L.	Federal - PPG and State CBT				NEPPS Annual Performance Report and NJWMC Webpage	Ongoing
~~Database Maintenance: NJEMS/ PCS~~		~~SWC~~	~~43~~	~~NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide 100% Wendb DMR data elements for major facilities via reports available on the NJ Data Miner website.~~	~~Beym, T.~~	~~State – General Fund~~				~~NJPDES Permit Issuance~~	As of 4/10/2018, ICIS is current with New Jersey's NPDES information. We have completed the requirements of the agreed upon action plan. Further, there is no longer a need to continue to maintain EPA specific reports on the NJ Data Miner website, since this information will be maintained/updated in ICIS by NJ and available to EPA directly through their database. As such, we request to have this commitment removed from the PPA.
~~Database Maintenance: NJEMS/ PCS~~	SWC -	~~SWC~~	~~44~~	~~NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide DSW permit information via reports available on the NJ Data Miner website and, for pretreatment, will email information to EPA as agreed. Once NJPDES data is flowing into ICIS, NJDEP will also input pretreatment audit information (including but not limited to audit dates, number of SIUs in significant non-compliance, number of SIUs without permits, etc...).~~	~~Beym, T.~~	~~State – PPG Match~~				~~ICIS and NJDEP Data Miner website~~	As of 4/10/2018, ICIS is current with New Jersey's NPDES information. We have completed the requirements of the agreed upon action plan. Further, there is no longer a need to continue to maintain EPA specific reports on the NJ Data Miner website, since this information will be maintained/updated in ICIS by NJ and available to EPA directly through their database. In addition, the maintenance of the Pretreatment audit information in ICIS will be addressed under the proposed new commitment identified in item 4 below. As such, we request to have this commitment be removed from the PPA.
Data Management		SWC	47	Enter DEP-generated ambient water quality data that has been QA'd and not entered into USGS' NWIS database into STORET/WQX data warehouse. NJDEP has targeted to have this data entered by June of the following year. Enter DEP-generated short-term continuous data from deployments of various data sondes and loggers in freshwaters of the State into the NJDEP's DWM&S Continuous Data Monitoring Program .	McGeorge, L., Schuster, B.	Federal – PPG				STORET/WQX data warehouse and DWM&S' Continous Data Website	Ongoing
		SWC	66	Establish TMDLs, watershed restoration plans and/ or take other appropriate actions to address all listed waterbody/ pollutant combinations with a goal of addressing each combination within 13 years of its original listing date. The two year schedule for addressing impairments, including TMDL development is posted for public comment along with the biennial "Integrated Water Quality Assessment Report". NJDEP has posted the list of high priority waters in the July 2014 NJ Register and it consists of 56 pollutant-waterbody combinations, all in the Raritan, Salem and Saddle River watersheds. EPA and NJDEP agree that mechanisms other than TMDLs may be used to address pollutants for some waterbodies. Criteria for choosing additional waterbodies for action will follow NJ's Vision Approach for Assessment, Restoration and Protection under the CWA 303(d) Program. In 2017~~8~~ NJDEP will propose Mercury TMDLs as an amendment to the Statewide Mercury TMDL for an additional 12 waterbodies. In 2018~~9~~, NJDEP will propose TMDLs for the Salem and Saddle Rivers, with finalization in 2019~~20~~. NJDEP will also identify the number of segments and pollutants associated with the Hammonton River for TMDL or restoration plan development in 2019. For priority waters identified under EPA's 303(d) program measure (WQ-27), NJDEP will provide annual commitments for TMDLs, alternative restoration approaches, or protection plans for each federal fiscal year ~~[contingent upon EPA's approval of the 2014 Integrated List]~~.	Cenno, K.	State- CBT				Individual Project Reports	Ongoing
		SWC	80	NJDEP will propose changes to SWQS in 2018~~9~~ and submit adopted amendments to to EPA in 2019~~20~~. Anticipated areas of change include recreational criteria consistent with the BEACH Act in all primary contact recreation waters, freshwater ammonia and nutrient criteria and/or policies and to add variance language. Additional C1 candidates are also anticipated.	Cenno, K.	State - General Fund				New Jersey Register	Ongoing
		SWC	81	Continue to implement the projects identified in the 2013 Nutrient Criteria Enhancement Plan (NCEP) and provide annual progress reports. Evaluate progress under the 2013 plan and revise the NCEP in 2017 including task completion updates and new tasks. The revised NCEP should include a brief description of tasks already completed/still ongoing and provide the description of how NJDEP plans to use this information in the process of numeric criteria derivation for states estuaries. Specific informationabout the status of numeric nutrient criteria derivation should be inlcuded along with the expected schedule for their adoption and submission to EPA for approval.	Cenno, K.	State - General Fund				Nutrient Criteria Enhancement Plan annual progress reports and Long Term Strategy Annual Progress Report	Ongoing

~~NJPDES Rules~~		~~SWC -~~	~~84~~	~~As the 2008 updated CAFO rules can be implemented by reference under the existing authority of N.J.A.C. 7:14A-2.3(a), the Department has determined that it is not necessary to amend those rules to include additional specific provisions related to CAFOs at this time.~~	~~Murphy, J~~	~~State – PPG Match~~				~~New Jersey Register~~	~~No Action~~
Planning – 303(d) List		SWC	89	Submit to EPA the required elements under Sections 303(d) and 305(b) of the CWA by April 1st of even-numbered years. Assess water quality using all existing, and readily available data and information, and provide NJ's assessment results to EPA in a format compatible with the ATTAINS national data base. NJDEP shall keep EPA apprised of progress regarding the draft 2016 Section 303(d) and 305(b) required elements and expects to public notice them in the NJ Register on or about October 1, 2017~~8~~. ~~NJDEP will provide the region with electronic ADB compatible spreadsheet.~~ NJDEP will assit with validation of assessment information as necessary.	Cenno, K.	State – General Fund				2012 Integrated Water Quality Monitoring and Assessment Report.	Ongoing
NJPDES DSW Permitting		SWC	107	Number and percent of facilities covered by DSW permits that are considered current. ~~Goal for major DSW permit is no greater than 25% backlogged during the time NJDEP is preparing for NJPDES data entry/flow into ICIS-NPDES. After~~ Since NJPDES data is flowing into ICIS-NPDES, the goal for major DSW permits will be no greater than 15% backlogged, unless otherwise negotiated.	Rosenwinkel, S. ~~and Carasia-Auriti, M.~~	State – PPG Match				NJPDES Permit Issuance	NJDEP began flowing data to ICIS 4/1/18. Current backlog as of April 30, 2018 for major DSW permits is 16%.
		SWC	115	Determine the Natural Variability of Phosphorus Concentrations at Selected Diatom Sites: The primary objective of this project is to develop data to determine the natural variability of phosphorus and nutrients in relation to the variability in diatom communities. Data will be used, in conjunction with other available physical/ chemical and biological data to make informed decisions regarding the development of appropriate Surface Water Quality Standards for Total Phosphorus in NJ streams	Cenno, K., McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY14)				STORET/WQX data warehouse, Long Term Monitoring Strategy Progress Reports, SWQS	Awaiting Commencement
Industrial Pretreatment		SWC -	121	Continue approval, modification and oversight of delegated pretreatment programs in accordance with N.J.A.C. 7:14A; continue to conduct audits in accordance with the agreed upon protocol; continue issuance of SIU permits in non-delegated areas; and provide data in accordance with SWC 44.	~~Kempel, N.~~ Kelly Perez	State - PPG Match				Other	Ongoing
NJPDES Permitting		SWC -	123	Number and percent of priority NJPDES permits that are issued during the federal fiscal year. Number of priority permits to be issued shall be determined as the 80% of the 20% of the candidate list. Target number for each State fiscal year to be determined by September 30th of that fiscal year.	Rosenwinkel, S. ~~and Carasia-Auriti, M.~~	State - PPG Match					Ongoing Procedure continues on an annual basis and NJDEP has consistently met all priority permit commitments. For EPA FY2018, NJDEP committed to finalizing 2 priority permits. This goal has been 100% completed.
CSOs		SWC -	123.4	NJDEP will monitor CSO permittees progress toward meeting LTCP compliance due dates.	Rosenwinkel, S.						Ongoing NJDEP continues to monitor LTCP progress through the submission of quarterly progress reports (as required per the permit) as well as through quarterly update meetings with the permittees.
Statewide NPS Program		SWC	138	NJDEP will report into the Grants Reporting and Tracking System (GRTS) all projects selected for Section 319 grant funds (federal and state match). GRTS data entry will include, as applicable and appropriate, load reduction data for N, P and sediments. As required by Section 319, NJDEP will submit to EPA a statewide annual NPS report. Using a Watershed based approach, NJDEP will develop WQ-10 success stories for water bodies that were primarily non point source impaired and have been partially or fully restored. *Complete GRTS entry on or about 2/15~~/17, 2/15/18, 2/15/19 of each year~~ (for load reductions). *Submit annual NPS report on or about 11/1~~/17, 11/1/18, 11/1/19 of each year~~. *Complete 1 WQ-10 success story per year on or about 7/30	Cenno, K./Somboonlakana, D.	Federal PPG, 319 State-General Fund				GRTS entries made directly to GRTS. Success stories are individual reports.	Ongoing
~~Characterization 305(b)~~		~~SWC~~	~~165~~	~~Provide the region with electronic final approved version using the assessment Database (ADB) version 2 or an ADB compatible spreadsheet. NJDEP will assist the Region and RTI with validation of assessment information, as necessary~~	~~Cenno, K.~~					~~Provide information to EPA by April 1st of odd-numbered years.~~	~~Ongoing~~
Fish IBI Development	Ambient & Facility Monitoring	SWC	188	~~Initiate collection of data necessary for statistical analysis, validation and implementation of Large Rivers Index of Biotic Integrity;~~ Continue collection of fish community data necessary for statistical analysis and validation of Southern Fish IBI in the outer coastal plain.	McGeorge, L.	~~Federal – Supplemental 106 Funding (FFY07-08 and FFY10)~~ **Federal PPG, State CBT**				Individual project reports and/or WM&S webpage	Ongoing
NJPDES Permitting		SWC -	220 *formally SWC 188 (Reassigned number)*	~~NJDEP will update EPA on the status of expired/current NJPDES dischargers including the number of entitites covered by general permits for construction sites, industrial facilities, MS4s, and CAFOs.~~	~~Beym, T.~~	~~State - PPG Match~~				~~Email Communications~~	As of 4/10/2018, ICIS is current with New Jersey's NPDES information. As such, there is no longer the need to update EPA on the status of expired/permits for NPDES dischargers, since this information will be maintained/updated in ICIS by NJ and available to EPA directly through their database. As such, we request to have this commitment removed from the PPA.

NJPDES Permitting		SWC -	New commitment	NJDEP will ensure that all NJPDES permitting, DMR, enforcement, compliance, and pretreatment information, formerly classified as WENDB data, is accurate and up-to-date in the federal ICIS-NPDES database. All permitting, DMR, enforcement, and compliance information will be batch uploaded into ICIS-NPDES on a monthly basis. All pretreatment audit information (including but not limited to audit dates, number of SIUs in significant non-compliance, number of SIUs without permits, etc...) will be manually entered directly into ICIS and maintained on a monthly basis by NJDEP staff.	Beym, T.	State - PPG Match					
NJPDES Permitting		SWC	189	NJDEP will work to eliminate the backlog of permits expired greater than 10 years.	Rosenwinkel, S. ~~and Carasia-Auriti, M.~~	State - PPG Match				NJPDES Permit Issuance	NJDEP has minimal permits that meet this criteria and is working towards renewal of any such permits.
NJPDES Permitting		SWC	190	NJDEP will continue to work with EPA to address mutually-agreed upon permit-related action items that have been identified by EPA or NJDEP. EPA and NJDEP will meet in person or have a conference call quarterly if needed, but at a minimum of annually to discuss permitting issues. EPA and NJDEP shall meet no later than the end of the first quarter of the State fiscal year for which discussions are appropriate.	Rosenwinkel, S. ~~and Carasia-Auriti, M.~~and Murphy, J.					Meetings and/or conference calls to be scheduled with EPA on mutually agreed upon dates.	Ongoing
NJPDES Permitting		SWC	191	NJDEP will establish e.coli limitations for newly issued permits, as appropriate for discharges to Freshwater~~;~~ ~~and~~ Enterococci limitations for SE1 and SC waters~~,~~; ~~and~~ fecal coliform limitations for SE2 and SE3 waters ~~get Fecal limits~~.	Rosenwinkel, S, ~~and Carasia-Auriti, M.~~						NJDEP-BSWP has been incorporating enterococci and e. coli requirements as appropriate since 2006.
NPS Pollution Control Projects in Estuarine Environments		SWC	193	$371,482 of discretionary 319(h) funds implementing three major nonpoint source pollution control stormwater basin retrofit projects to reduce nutrients, total suspended solids and pathogen loads to the upper portions of Barnegat Bay. Project expected to be completed in July 2017	Cenno, K. ~~Springer, G.~~	EPA FYY 2008 Discretionary Grant				Quarterly reports by grant recipient and deliverables.	
NPS Green Infrastructure Techniques		SWC	195	These funds were originally allocated to support green infrastructure projects within the Rockaway River watershed~~. A grant agreement with Rutgers University was executed to advance one of the many implementation measures in the approved watershed restoration and protection plan for the Rockaway River, as well as the TMDL for phosphorus in the non-tidal Passaic River Basin. This green infrastructure project was to demonstrate and document the effectiveness of green infrastructure techniques to control, manage and reduce wet weather associated nonpoint sources of pollution in a priority watershed(s)~~ at the Rockaway Mall~~. The total grant amount: is~~ ($381,715)~~.and is matched in the amount of $254,477 from state in-kind match and/or grants-in-aid to related projects and local government partners. Rutgers University (grantee) was able to take this project through the design phase.~~ Unfortunately, due to organizational changes withing the company that owns the Rocakway Mall, there remained little interest to continue moving forward with this project. The Department ~~is in the process of~~ reprogramm~~e~~ding the remaining funds and appl~~ie~~dying them to the existing ~~RP 10-106~~ grant account for Green Infrastructure Implementation Projects for the City of Newark~~, N.J.~~ ~~The Department executed Section 319(h) "City of Newark Stormwater Education/BMP's implementation Program to Control CSO Discharges" ($200,000) on July 7, 2009. and is due to expire on July 4, 2013. Rutgers has achieved great success working with the Newark School Districts and neighborhood communities in concert with the Greater Newark Conservancy and the New Jersey Tree Foundation and have performed exceptionally well in all areas of project management and implementation.~~ This ~~new~~ project ~~(WM14-034) will~~ builds upon this successful initiative with an expiration date of ~~May~~ August 2016.	Cenno, K. ~~Springer, G.~~	EPA FYY 2009 Discretionary Grant				Quarterly reports by grant recipient and project deliverables.	
~~Piloting Nutrient Assessment Method including Periphyton Speciation Monitoring in Southern NJ Rivers and Streams~~	~~Ambient & Facility Monitoring~~	~~SWC~~	~~197~~	~~Using a professional services contract for the identification and enumeration of periphytic lotic species, validate and enhance diatom index (TDI) and pilot the application of the index developed by the Philadelphia ANS. Continuing objectives are asfollows: 1.) Samples to be collected by NJDEP staff at 25 - 40 stations from the southern NJ portion of the Ambient Surface Water Monitoring Network. 2.) Validation of northern inference model and BCG from the Northern NJ portion of the Ambient Surface Water Monitoring Network. 3.)Analyze applicability of Northern TDI and BCG to Coastal Plain Streams, and possible development of Coastal Plain TDI and BCG.~~	~~McGeorge, L., Cenno, K.~~	~~Federal - Supplemental 106 Funding (FFY09 and FFY10)~~				~~Project report, Nutrient Criteria Enhancement Plan progress reports and Long Term Monitoring Strategy Progress reports.~~	~~Ongoing~~
~~Development of Sediment Diatom Impairment Index for NJ Lakes,~~	~~Ambient & Facility Monitoring~~	~~SWC~~	~~198~~	~~Using a professional services contract for the identification and enumeration of sediment lentic species from previously collected sediment samples, and new samples, and the use of said data to validate a NJ specific version of the index previously developed by the Philadelphia ANS. Continuing objectives are asfollows: 1.) Validate nutrient inference model for NJ lakes above the fall line at eco-region scale. 2.) Development of similar inference model for Southern NJ Coastal Plain lakes at eco-region scale. 3.) Development of nutrient inference model for preexisting nutrient conditions using diatom assemblages from bottom layer sediment cores . Receive and review reports and data.~~	~~McGeorge, L., Cenno, K.~~	~~Federal - Supplemental 106 Funding (FFY09 and FFY10)~~				~~Project report and Nutrient Criteria Enhancement Plan and Long Term Monitoring Strategy progress reports~~	~~Ongoing~~
Fish Tissue Monitoring	Ambient & Facility Monitoring	SWC	199	Continue the NJDEP fish tissue monitoring program. Freshwater sampling and analyses will be conducted on 10-20 targeted and~~/ or~~ probabilistic sites in public lakes over 10 acres, and/or large rivers. Implement esturine and coastal waters fish tissue monitoring program.	McGeorge, L., (WM&S), Buchanan, G. (OS)	Federal - Supplemental 106 Funding ~~(FFY14)~~				Raw data in to STORET/WQX data warehouse	Ongoing (sampling completed)

Trends		SWC	204	Using a professional services contract, continue work with USGS to develop long-term (30 year), chemical/physical water quality plots and trends information for approximately 30 stations instations in NJ's cooperative ambient rivers and streams monitoring network. Trends focus is on Nutrients and Phosphorus. Also will update trends in 2019.	McGeorge, L.	Federal - ~~PPG and State Supplemental 106 Funding (FFY11 and FFY12)~~					Ongoing
Enhanced Technology		SWC	205	Develop capacity for use of advanced freshwater monitoring technology (meters) for efficient production and transfer of water quality data (e.g., pH and conductivity) from NJ's rivers, streams and lakes. Continued upgrade monitoring equipment which will result in standardization of analytical results and minimization of transcription errors when entering data into databases. Enhance capacity of meters for measuring flow. Develop capacity for in-field electronic documention and data upload of observations and field measurements. Develop capacity for short term continuous freshwater and coastal monitoring stations with telemetry and real time data. Develop capacity to perform bathymetric surveys, lake residence time, submerged and surface vegetation surveys, and HAB bloom monitoring using unmanned aerial vehicle (UAV), depth finder, and GIS equipment.	McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY16)					
NPS Strategy		SWC	208	Implement New Jersey's Nonpoint source management program plan.	Cenno, K.	Federal PPG, 319 State-General Fund				Individual Report, Annual Statewide NPS Report	Ongoing
~~NPS Barnegat Bay Wetlands Assessment~~		~~SWC~~	~~209~~	~~A statewide uniform wetlands assessment and monitoring protocol will be developed, building upon an approach that the DNREC developed along with the Mid Atlantic Wetlands Work Group, which will also consider climate change and sea level rise adaptation. The project will be designed to provided assessments of those wetlands that are most functional and critical for restoration, protection and preservation thereby providing better long term permitting and restoration decision making. This project will be accomplished through a pass-through grant to Ocean County. Grant amount: $150,000. This amount will be matched in the amount of $100,000 from in-kind services and/or grants-in-aid by BBNEP and/or the Department.~~	~~Springer, G.~~	~~EPA FYY 2009 Discretionary Grant~~				~~Grant Agreement executed in June 2010. Milestone 1: By December 31, 2010, describe the selected sites and complete installation of the SET's in Barnegat Bay. Milestone 2: By December 31, 2010, complete the QAPP. Milestone 3: By June 30, 2011, conduct initial monitoring. A report summarizing the data collected during the 2011 monitoring season was received by the Department. Monitoring continued for the 2013 monitoring season. A report summarizing 2013 monitoring activities was recieved at the end of the monitoring season.~~	~~Completed~~
NPS Barnegat Bay Living Shoreline		SWC	210	Barnegat Bay Living Shoreline: NJDEP will assist in the recovery and future protection of water quality and natural resources in Barnegat Bay through the implementation of a high visibility living shoreline demonstration project in the Barnegat Bay watershed, in accordance with the April 22, 2013 EPA approved detailed workplan. NJDEP has targeted the following milestones for this project. Milestone 1: Completion of final design and permit application (target: 2018). Milestone 2: Development of a public outreach plan (target: 2018). Milestone 3: Implementation/construction of living shoreline (target: 2019). Milestone 4: Public outreach plan implementation (target: 2019).	Cenno, K., ~~Springer, G.~~	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables	Ongoing
Living Shorelines to Restore Wetlands, Improve Water Quality and Engage Communities in Camden		SWC	211	NJDEP will use the CWA 319(h) Discretionary Funds to: a) Develop a living shoreline design for a specific location in Camden, New Jersey, where it is determined to have the greatest beneficial impacts on water quality, habitat quality, and coastal resiliency; b) build support for the implementation of climate resiliency techniques like living shorelines among community groups and local decision makers through project-related education/outreach; c) train and engage the local community in freshwater mussel monitoring and; d) quantify the contribution of endemic freshwater mussel populations in water quality improvements.	Cenno, K., (DEP), Purdy, I, Drake, K. (EPA)	EPA FYY 2013 Discretionary Grant				Quarterly reports by grant recipient and deliverables.	Ongoing
Nonpoint Source Management in the Barnegat Bay Watershed - Reducing Nutrient Pollution from Fertilizer and Reducing Watercraft Impacts		SWC	212	NJDEP will reduce nutrient pollution from fertilizer and reduce watercraft impacts: *Fertilizer Law Implementation and Outreach:* NJDEP will advance implementation of the NJ Fertilizer law by developing training materials to reach lawn care professionals who are required to be certified in order to apply fertilizer, in accordance with the March 2013 EPA approved workplan; *Reduce Watercraft Impacts to Ecologically Sensitive Areas:* NJDEP will incorporate the location information of the Ecologically Sensitive Areas on the NJ Division of Fish and Wildlife GPS Mobile App in such a way that the information will be easily accessible to boaters. NJDEP will further assess the Ecologically Sensitive Areas, including further verification of their locations and impacts of Hurricane Sandy, in accordance with the March 2013 EPA approved workplan. Remaining tasks: ~~Complete Post-Sandy change assessment (Component 4) (December 2014); Complete Bayesian statistical modeling (Component 1) (August 2014); Complete pre vs. post data assessment (Component 3) (December 2014); Complete risk assessment (Component 2) (March 2015); Complete index development (Component 5) (April 2015); Complete Draft Project report (June 2015);~~ NJDEP expects to complete Final Project report in ~~(~~August 2016~~5)~~	Cenno, K., ~~Springer, G.~~	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables	Ongoing
~~Statewide NPS Program~~		~~SWC~~	~~213~~	~~NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals for SP-12. Complete 1 SP-12 success story per year expected or or about 6/30~~	~~Cenno, K.~~	~~Federal PPG, 319 State-General Fund~~				~~SP-12 success stories~~	
		SWC	216	In accordance with the December 23, 2014 EPA approved detailed workplan, NJDEP will implement two citizen science projects in the Barnegat Bay Watershed: a) Adult Community Engagement in Holiday City, Toms River, NJ and; b) Citizen Monitoring of Water Quality at the Barnegat Bay Partnership Brown's Woods Preserve in Toms River, NJ. Projects are ongoing and a Final Report to be submited in summer 2018.	~~Friedman, B.~~ Cenno, K.	Discretionary 106 funding				STORET/WQX data warehouse, quarterly reports by grant receipients and deliverables	Awaiting Commencement

		SWC	217	Using a professional services contract, expand upon current reference lake monitoring efforts to determine reference lake conditions throughout the state's ecoregions. The primary objective of this project is to collect data necessary to assess detailed growing season water quality conditions within New Jersey reference lakes. The data will be used to characterize reference lake conditions in the ecoregions of the state for enhancing the current lake nutrient criteria. Supplemental monitoring of 5 "least disturbed" lakes to be based on 7 annual samples instead of 3 annual visits performed by NJDEP.	Cenno, K..	106 Supplemental Funds (FFY15)				STORET/WQX data warehouse, Nutrient Criteria Enhancement Plan, Integrated Water Quality Monitoring & Assessment Report	Awaiting Commencement
		~~SWC~~	~~218~~	~~Adequate statewide sample collection, analysis, and identification of Harmful Algal Blooms (HAB's) are needed to protect public and ecosystem health. Analyses can be enhanced by use of Flow thorough microscopy and qPCR. Public health protection is managed by ensuring marine bio toxins and toxin producing species are not present in shellfish harvest waters (NSSP requirement), protect bathers at beaches from contact with potentially toxic algae species, in both marine water (many species) and fresh waters (cyanobacteria), and to protect public water supplies from toxins produced by cyanobacteria. Ecosystem heath is protected by identifying conditions and HAB's, that can impact dissolved oxygen; or directly impact marine organisms, such as hard clams that can be impacted by "Brown Tides" caused by the algae species Aureococcus anophagefferens.~~	~~Schuster, B.~~	~~State-General Fund, 106 Supplemental Funds (FFY15)~~				~~Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)~~	~~Ongoing~~
Improve Coastal and Ocean Waters											
		SWC	25	Continue monitoring basic water chemistry in coastal and estuarine waters (nutrients, DO, salinity and chlorophyll) in bay and near-shore waters.	Schuster, B.	Federal -PPG, Supplemental 106 Funds (FFY15)				Integrated Water Quality Monitoring and Assessment Report, STORET/WQX	Ongoing
Ocean Dissolved Oxygen Monitoring		SWC	192	routine monitoring of dissolved oxygen, temperature and salinity in NJ's ocean waters through use of an automated underwater vehicle (glider) in cooperation with Rutgers University.	Schuster, B.	State Funds- CBT				Individual project reports and data entered STORET data warehouse.	Ongoing
Coastal Water Quality Data Management System		SWC	200	Maintain continuous monitoring website developed to handle both real-time and short term deployed continuous monitoring water quality equipment, in both fresh and marine waters	Schuster, B.	Federal - PPG				NJDEP/Rutgers Air Craft Remote Sensing web page and Continuous Monitoring webpage.	Ongoing
Enhanced Remote Sensing of chlorophyll in NJ's coastal waters		SWC	201	Continue extension of time period for remote sensing flights, weekly, over NJ's coastal waters from March-May and Sept-Oct to expand surveillance for potential blooms	Schuster, B.	Federal - Supplemental 106 Funding (FFY09 and FFY10)				www.nj.gov/dep/bmw	Ongoing
Assess sediment toxicity--Barnegat Bay pilot		SWC	203	Using a professional services contract, assess sediment toxicity as a possible cause for aquatic life impacts. Pilot in Barnegat Bay.	Cenno, K.	Federal - Supplemental 106 Funding (FFY11 and FFY12/13)				Project report upon completion	Ongoing
~~Enhanced Coastal Assessment~~		~~SWC~~	~~206~~	~~Enhance NJ's coastal assessment of marine (near shore) and esturine waters using physical, chemical, and biological indicators and develop a tool (Report Card) to identify gaps and better communicate water quality status to decision makers, managers and the public.~~	~~Schuster, B.~~	~~Federal - Supplemental 106 Funding (FFY13, FFY15)~~				~~Not done, reallocated funds for marine fish tissue chemical monitoring~~	~~Ongoing~~
Reduce Marine Debris		SWC	207	Purchase and install 11 - 15 bottle refilling stations for coastal state parks and urban parks along the Camden waterfront. Project will address the problem of disposable plastic water bottles entering tidal waterways and reduce marine debris.	Schuster, B.	Federal - 319(h) and PWSS				Report to EPA	Awaiting Commencement

Cell: M20
Comment: Sheri Shifren:
Does this get removed since it was completed last year?

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